

RESUME

Sheryan Patricia Epperly Chester

EDUCATION AND TRAINING

Degrees received

B.S. Zoology and Biological Science (Marshall University, 1976)
M.Sc. Marine Science (University of South Florida, 1981)

Other training

SCUBA (YMCA, Charleston, W.Va., 1975)
Intermediate Easytrieve (N.C. Dept. Admin., Raleigh, 1981)
IBM MVS JES2 JCL (N.C. Dept. Admin., Raleigh, 1981)
SAS Color Graphics (SAS Institute, Cary, N.C., 1983)
Surface Supplied Mixed Gas Diving (NOAA NURP, Univ. N. Carolina, Wilmington, 1984)
Geography Short Course: Digital Image Processing of Satellite Data and Geographic Information Systems (Univ. N. Carolina, Chapel Hill, 1993)

PROFESSIONAL EMPLOYMENT

National Marine Fisheries Service, Miami, FL

Title: Research Fishery Biologist

Dates of Employment: June 1998 - present

Description of Work:

1. Program manager and team leader for sea turtle research within SEFSC.
2. Develop and implement 5-yr strategic plans for research activities.
3. Prepare proposals, budgets, and project reports; monitor contracts.
4. Review ESA documents and Section 7 biological opinions.
5. Conduct research on all life stages of sea turtles.

National Marine Fisheries Service, Beaufort, NC

Title: Research Fishery Biologist

Dates of Employment: Sep. 1985 - June 1998.

Description of Work Apr. 1988 - June 1998:

1. Develop and implement a multi-project plan to assess sea turtle distribution and abundance in inshore waters of the southeast
2. Prepare proposals, budgets and project reports
3. Analyze data and prepare manuscripts on research results for publication and presentation at scientific meetings
4. Review ESA documents and proposed rules
5. Team Leader of Protected Species Team, April 1994-December 1995, which involved the oversight of 1-2 technicians and/or biologists and their research on sea turtles and marine mammals

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Description of work Sep. 1985 - Apr. 1988:

1. Develop new techniques for aging juvenile fish and conduct studies on daily age and growth of populations of juvenile menhaden
2. Conduct population identification studies on Atlantic menhaden

North Carolina Division of Marine Fisheries, Morehead City, NC

Title: Marine Biologist I

Dates of Employment: Jan. 1981 - Sep. 1985

Description of Work Sep. 1984 - Sep. 1985:

1. Coordinate NC bioprofile sampling activities for fisheries operating in the Federal Conservation Zone with special emphasis on the snapper-grouper and coastal pelagic species
2. Conduct sampling throughout NC for the FCZ fisheries
3. Analyse data collected for species, size, and age composition of the fisheries, and prepare reports and manuscripts on research results for publication and presentation at scientific meetings
4. Assist Division staff in SAS programming, utilization of the computer resources and statistics

Description of Work Jan. 1981 - Aug. 1984:

1. Design, organize and conduct finfish and crustacean stock assessment surveys of NC estuarine waters, tagging projects, and age and growth projects
2. Compile and analyze fisheries data from the Pamlico-Albemarle Peninsula to assess potential impacts of coastal energy development on the fisheries of the Peninsula
3. Analyze data from above projects and prepare reports and manuscripts on research results for publication and presentation at scientific meetings
4. Coordinate general estuarine survey of Pamlico and Albemarle sounds open waters
5. Train and assist section staff in statistics, population dynamics, SAS, and the computer
6. Design and implement a standardized computerized database for all Division biological monitoring data
7. Serve as the Division's technical representative for ADP activities
8. Supervise 2-4 clerical/keyentry employees

National Marine Fisheries Service, Beaufort, NC

Title: Biological Aide

Dates of Employment: Jun. 1978 - Mar. 1979, Jun. 1979 - Dec. 1979, Jun. 1980 - Aug. 1980

Description of Work:

1. Design and conduct a subpopulation identification study of Atlantic menhaden using meristics, morphometrics and biochemistry. This included field collection, radiography, and electrophoresis.
2. Analyze data from above study, write thesis, and prepare manuscript and presentation on research results for publication and presentation at scientific meetings

Human Sciences Research, St. Petersburg, FL

Title: Intercept Interviewer

Dates of Employment: Mar. 1980 - Jun. 1980

Description of Work:

1. Interview recreational fishermen and sample their catch for the national recreational survey (MRFSS) by the NMFS. Sampling was conducted in southwestern Florida in the vicinity of Tampa Bay.
2. Prepare data for keyentry and submit associated forms

University of South Florida, St. Petersburg

Title: Biological Assistant

Dates of Employment: Feb. 1978 - May 1978

Description of Work:

1. Preparation, fixation, embedding, sectioning, staining, coverslipping, and labelling of tissues of marine organisms collected from the Gulf of Mexico under a BLM grant to the university

National Marine Fisheries Service, Beaufort, NC

Title: Biological Aide

Dates of Employment: May 1977 - Dec. 1977

Description of Work:

1. Data analysis of Atlantic menhaden population dynamics which involved computer programming using Fortran IV and SAS and knowledge of basic fisheries population dynamics. The results of these analyses were the basis for the management plan developed for the fishery.

Marshall University, Huntington, WV

Title: Research Assistant

Dates of Employment: Jan. 1977 - May 1977

Description of Work:

1. Design and implement a zooplankton study of an Ohio River, WV tributary which would be impacted by major construction work on the Galliopolis Locks. This involved the

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collection of samples, identification and enumeration of organisms and presentation of the results in the report to the U.S. Army Corps of Engineers.

2. Assist in the ichthyoplankton collection and sorting in the same project

SPECIAL ASSIGNMENTS

Assessment of a reduction in fishing season for the Atlantic Menhaden purse seine fishery for the ASMFC Atlantic Menhaden Advisory Committee, 1982.

NOAA Liason to USGS National Water-Quality Assessment Program, Albemarle-Pamlico Drainage Study Unit, 1991-1996.

Turtle Expert Working Group (loggerhead & Kemp's ridley), 1995-1999

Turtle Expert Working Group (leatherback) 2004-present.

NMFS Sea Turtle Review Panel for allocation of RPS funds, 1996-2000.

Co-compiler of the Proceedings of the 17th Annual Sea Turtle Symposium, 1997-1998.

Secretary, International Sea Turtle Society, May 1999-April 2002.

NOAA representative on South Florida Multi-Species Recovery Plan MERIT team, July 2000-2003.

Kemp's ridley recovery plan team member, 2002-present

SPECIAL ACTIVITIES

Consulting

Duke University (Nov. 1985-Dec. 1986) - statistical and OCS consultant for ASMFC SEAMAP Project to evaluate methods for mapping hard bottom areas in the South Atlantic Bight

Editorial and technical reviews

I have reviewed numerous in-house reports and manuscripts and have reviewed manuscripts for *Fishery Bulletin*, *Bulletin of Marine Science*, *Copeia*, *Journal of Herpetology*, *Marine Biology*, and *Chelonian Conservation and Biology*. In addition, I routinely review Marfin and S/K proposals and reports and drafts of NOAA/NMFS regulations pertaining to sea turtle management. Infrequently I review NSF proposals and I am asked to review outside reports and manuscripts for individuals or organizations prior to their submission for publication.

Instruction

Training of federal and state fishery observers to monitor vessel compliance with regulations protecting sea turtles and to handle, resuscitate, tag, biopsy, and release sea turtles caught incidentally during fishing operations. I have given guest lectures at Florida Atlantic University, Duke University, and University of Miami.

HONORS AND AWARDS

Honorable mention for American Society of Ichthyologists and Herpetologists Stoye Award in general ichthyology for oral presentation, "A population investigation of Atlantic menhaden: a meristic, morphometric and biochemical approach" (June, 1982)

U.S. Dept. Commerce, Natl. Mar. Fish. Serv., NOAA Publication Award for best paper in Fishery Bulletin Volume 85: Population and fishery characteristics of Atlantic menhaden, *Brevoortia tyrannus* (85:569-600, 1987)

NMFS Outstanding Performance Awards: 1987, 1988, 1992, 1994, 1996, 1997

NMFS Quality Step Increase: 2001

NMFS Cash Awards: 2000, 2001, 2002, 2003, 2004

US. Dept. Commerce Bronze Metal Award: 2004

PROFESSIONAL AFFILIATIONS

American Society of Ichthyologists and Herpetologists

SSC/IUCN Marine Turtle Specialist Group

International Sea Turtle Society

PROFESSIONAL REFERENCES

Dr. Deborah T. Crouse

Division of Endangered Species

U.S. Fish and Wildlife Service

4401 N. Fairfax Dr., Rm 452

Arlington, VA 22203

Dr. John A. Musick

Virginia Institute of Marine Science

P.O. Box 1346, Rt. 1208

Gloucester Point, VA 23062

Dr. Jeanette Wyneken

Department of Biological Sciences

Florida Atlantic University

P.O. Box 3091

Boca Raton, FL 33431-0991

PUBLICATIONS

(many can be viewed at <http://www.sefsc.noaa.gov/seaturtlepublications.jsp>)

Peer-Reviewed Publications

Epperly, S. P. and W. R. Nelson. 1984. Arithmetic versus exponential calculation of mean biomass. Fishery Bulletin 82:446-448.

Miller, J. M., S. W. Ross, and **S. P. Epperly**. 1984. Habitat choices in estuarine fishes: Do they have any? p. 337 - 352. In Copeland, B. J., K. Hart, N. Davis, and S. Friday, eds. Research for managing the nation's estuaries: Proceedings of a conference held in Raleigh, North Carolina March 13 - 15, 1984. UNC Sea Grant UNC-SG-84-08.

Ross, S. W. and **S. P. Epperly**. 1985. Utilization of shallow estuarine nursery areas by fishes in Pamlico Sound, North Carolina and adjacent tributaries, p. 207-232. In Yanez-Arancibia, A., ed. Fish Community Ecology in Estuaries and Coastal Lagoons. Towards and Ecosystem Integration. Universidad de Mexico, Inst. Ciencias Del Mar Y Limnol., Mexico City.

Pietrafesa, L. J., G. S. Janowitz, E. B. Noble, J. M. Miller, S. W. Ross, and **S. P. Epperly**. 1986. Abiotic factors possibly influencing the spatial and temporal variability of juvenile fish in Pamlico Sound, NC, p. 341-353. In Wolfe, D. A., ed. Estuarine Variability. Academic Press, New York.

Ahrenholz, D. W., W. R. Nelson, and **S. P. Epperly**. 1987. Population and fishery characteristics of Atlantic menhaden, *Brevoortia tyrannus*. Fishery Bulletin 85:569-600.

Lewis, R. M., D. W. Ahrenholz, and **S. P. Epperly**. 1987. Fecundity of Atlantic menhaden, *Brevoortia tyrannus*. Estuaries 10:347-350.

Epperly, S. P. 1989. A meristic, morphometric and biochemical investigation of Atlantic menhaden, *Brevoortia tyrannus* (Latrobe). Journal of Fish Biology 35:139-152.

Chester, A. J., J. Braun, F. A Cross, **S. P. Epperly**, J. V. Merriner, and P. A. Tester. 1994. AVHRR imagery and the near real-time conservation of endangered sea turtles in the western North Atlantic. Proceedings of WMO/IOC Technical Conference on Space-Based Ocean Observation, Sep. 5-10, 1993, Bergen, Norway. World Meteorological Organization and International Oceanographic Committee WMO/TD-649:184-189.

Epperly, S. P. and J. R. Dodrill. 1995. Catch rates of snowy grouper, *Epinephelus niveatus*, on the deep reefs of Onslow Bay, Southeastern U.S.A. Bulletin of Marine Science 56:450-461.

Epperly, S. P., J. Braun, and A. Veishlow. 1995. Sea turtles in North Carolina waters. Conservation Biology 9:384-394.

Epperly, S. P., J. Braun, and A. J. Chester. 1995. Aerial surveys for sea turtles in North Carolina inshore waters. Fishery Bulletin 93:254-261.

Collazo, J. A. and **S. P. Epperly**. 1995. Accuracy tests for sonic telemetry studies in an estuarine environment. Journal of Wildlife Management 59:181-188.

Epperly, S. P., J. Braun, A. J. Chester, F. A Cross, J. V. Merriner, and P. A. Tester. 1995. The winter distribution of sea turtles in the vicinity of Cape Hatteras and their interactions with the summer flounder trawl fishery. Bulletin of Marine Science 56:547-568.

Rohde, F. C., S. W. Ross, **S. P. Epperly**, and G. H. Burgess. 1995. Fishes new or rare on the Atlantic seaboard of the United States. Brimleyana 23:53-64.

Epperly, S. P., J. Braun, A. J. Chester, F. A Cross, J. V. Merriner, P. A. Tester, and J. H. Churchill. 1996. Beach strandings as an indicator of at-sea mortality of sea turtles. Bulletin of Marine Science 59:289-297.

Braun, J. and **S. P. Epperly**. 1996. Aerial surveys for sea turtles in southern Georgia waters, June, 1991. Gulf of Mexico Science 1996:39-44.

Braun, J., **S. P. Epperly** and J. A. Collazo. 1997. Evaluation of a sonic telemetry system in three habitats of an estuarine environment. Journal of Experimental Marine Biology and Ecology 212:111-121.

Tester, P. A., J. Braun, A. J. Chester, F. A Cross, **S. P. Epperly**, J. V. Merriner, and R. P. Stumpf. 1998. Application of remote sensing to real-time management of marine resources: today and tomorrow, p. 175-179 In Proceedings of the Ocean Community Conference '98. Marine Technology Society, Baltimore, Md.

Henwood, T.H. and **S.P. Epperly**. 1999. Population surveys in foraging habitat, p. 65-66. In Eckert, K.L., K.A. Bjorndal, F. Alberto Abreu-Grobois, and M. Donnelly, eds. Sea Turtle Manual of Research and Conservation and Techniques. IUCN, SSC Publ. No. 4.

Epperly, S.P. and W.G. Teas. 2002. Turtle excluder devices - Are the escape openings large enough? Fishery Bulletin 100: 466-474.

Braun-McNeill, J. and **S.P. Epperly**. 2002. Spatial and temporal distribution of sea turtles in the Western North Atlantic and the U.S. Gulf of Mexico from Marine Recreational Fishery Statistics Survey (MRFSS). Marine Fisheries Review 64(4):50-56.

Epperly, S.P. 2003. Fisheries-related mortality and turtle excluder devices (TEDs), p. 339-353. In Lutz, P.L., J.A. Musick, and J. Wyneken, eds. The Biology of Sea Turtles, Volume II. CRC Press, Boca Raton, FL.

Avens, L., J. Braun-McNeill, **S. Epperly**, and K.J. Lohman. 2003. Site fidelity and homing behavior in juvenile loggerhead sea turtles (*Caretta caretta*). Marine Biology 143:211-220.

Heppell, S.S., L.B. Crowder, D.T. Crouse, **S.P. Epperly**, and N.B. Frazer. 2003. Population models for Atlantic loggerheads: past, present, and future, p.255-273. In Bolten, A.B. and B.E. Witherington (eds.). Loggerhead Sea Turtles. Smithsonian Institution Press.

Heppell, S., D. Crouse, L. Crowder, **S. Epperly**, W. Gabriel, T. Henwood, R. Marquez, and N. Thompson. 2004. A population model to estimate recovery time, population size, and management impacts on Kemp's ridley sea turtles. Chelonian Conservation and Biology 4:765-771.

Bass, A.L., **S.P. Epperly**, J. Braun-McNeill. 2004. Multi-year analysis of stock composition of a loggerhead turtle (*Caretta caretta*) foraging habitat using maximum likelihood and Bayesian methods. Conservation Genetics 5:783-796.

Bowen, B.W., A.L. Bass, S. Chow, M. Bostrom, K.A. Bjorndal, A. B. Bolten, T. Okuyama, B.M. Bolker, **S. Epperly**, E. LaCasella, D. Shaver, M. Dodd, J.A. Musick, M. Swingle, K. Rankin-Baransky, W. Teas, W.N. Witzell, and P. H. Dutton. 2004. Natal homing in juvenile loggerhead turtles (*Caretta caretta*). Molecular Ecology 13:3797-3808.

Watson, J.W., **S.P. Epperly**, A.K. Shah, and D.G. Foster. 2005. Fishing methods to reduce sea turtle mortality associated with pelagic longlines. Can. J. Fish. Aquat. Sci. 62:965-981.

McNeill, J.B., **S.P. Epperly**, D.W. Owens, L. Avens, E. Williams, and C.A. Harms. In review. Seasonal reliability of testosterone radioimmunoassay (RIA) for predicting sex ratios of juvenile loggerhead (*Caretta caretta*) sea turtles. Journal of the Marine Biological Association of the United Kingdom.

Braun-McNeill, J., **S.P. Epperly**, L. Avens, and M. Snover. In review. Life stage duration and variation in growth rates of loggerhead (*Caretta caretta*) sea turtles from the western North Atlantic. Fishery Bulletin

Stamper, M.A., C. Harms, **S.P. Epperly**, J.B. McNeill, L. Avens, and M.K. Stoskopf. In review. Relationship between barnacle epibiotic load and hematologic parameters in loggerhead sea turtles (*Caretta caretta*), a comparison between migratory and

residential animals in Pamlico Sound, North Carolina. Journal of Zoo and Wildlife Medicine

Bass, A.L., **S.P. Epperly**, and J. Braun-McNeill. In review. Origin of green turtles (*Chelonia mydas*) in North Carolina: evidence for dispersal in the Western Atlantic.

Gilman, E.L., J.W. Watson, C. Boggs, **S. Epperly**, E. Zollett, S. Beverly, H. Nakano, Y. Swimmer, K. Davis, D. Shiode, P. Dalzell, and I. Kinan. In review. Review of the state of knowledge for reducing sea turtle bycatch in pelagic longline gear. Endangered Species Research.

Other Publications (Thesis and Reports)

Epperly, S.P. 1981. A population investigation of Atlantic menhaden: a meristic, morphometric and biochemical approach. M.Sc. Thesis, University of South Florida, Tampa, 107 p.

Epperly, S.P. 1982. Management alternatives for Atlantic menhaden fishery from analysis of season closure strategies. Report to the Atlantic Menhaden Advisory Committee, 29 Apr. 1982, Norfolk, VA, 12p.

Epperly, S.P. 1984. The North Carolina Division of Marine Fisheries computerized monitoring database: System description and user's manual. N.C. Dep. Nat. Resour. Community Dev., Div. Mar. Fish., Phase I Completion Rep. No. 22, Proj. CEIP 79-10, 10+70+188+222p.

Epperly, S.P. 1984. Fishes of the Pamlico-Albemarle Peninsula, NC. Area utilization and potential impacts. N.C. Dep. Nat. Resour. Community Dev., Div. Mar. Fish. Spec. Sci. Rep. No. 42, 129 p.

Epperly, S.P. and S.W. Ross. 1986. Characterization of the North Carolina Pamlico-Albemarle estuarine complex. U.S. Dep. Commer., NOAA Tech. Memo NMFS-SEFC-175, 55 p.

Epperly, S.P., W.H. Lenarz, L.L. Massey, and W.R. Nelson. 1986. A generalized computer program for yield per recruit analysis of a migrating population with area specific growth and mortality rates. U.S. Dep. Commer., NOAA Tech. Memo NMFS-SEFC-180, 26 p.

Epperly, S.P., N.B. Thompson, J.A. Keinath, J.A. Musick, and D.T. Crouse. 1989. Sea turtles in North Carolina, p. 49-61. In Marine Expo '89, 6 Oct. 1989, Wilmington, N.C., N.C. Dep. Admin, Outer Continental Shelf Office, Raleigh, NC, 65 p.

Thompson, N., T. Henwood, **S. Epperly**, R. Lohoefer, G. Gitschlag, L. Ogren, J. Mysing, and M. Renaud. 1990. Marine Turtle Habitat Plan. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFC-255, 20 p.

Epperly, S.P., D.W. Ahrenholz, and P.A. Tester. 1991. A universal method for preparing, sectioning and polishing fish otoliths for daily aging. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFC-283, 15 p.

Anonymous. 1992. Interactions between sea turtles and the summer flounder fishery, November, 1991-February, 1992. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFSC-307, 58 p.

Braun, J. and **S.P. Epperly**. 1993. Leatherback sea turtles and offshore shrimp trawling activity in North Carolina. National Marine Fisheries Service, Southeast Fisheries Science Center, Beaufort, NC, 7 p.

Epperly, S.P. 1995. Sea turtle strandings in the Middle Atlantic; May-July 1995. U.S. National Marine Fisheries Service, Southeast Fisheries Science Center, Beaufort, NC, 35 p.

Epperly, S.P., and J. Braun. 1996. 1996 N.C. Stranding Event. National Marine Fisheries Service, Southeast Fisheries Science Center, Beaufort, NC, 2 p.

Turtle Expert Working Group. 1998. An assessment of the Status of the Kemp's ridley (*Lepidochelys kempi*) and loggerhead (*Caretta caretta*) sea turtle populations in the Western North Atlantic. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFSC-409:1-96.

Epperly, S.P. and W.G. Teas. 1999. Evaluation of TED opening dimensions relative to size of turtles stranding in the Western North Atlantic. National Marine Fisheries Service, Southeast Fisheries Science Center Contribution PRD-98/99-08, Miami, FL, 31 p.

Yeung, C., **S. Epperly**, and C.A. Brown. 2000. Preliminary revised estimates of marine mammal and marine turtle bycatch in the U.S. Atlantic pelagic longline fleet, 1992-1998. National Marine Fisheries Service, Southeast Fisheries Science Center Contribution PRD 99/00-13, Miami, FL, 73 p.

Turtle Expert Working Group. 2000. Assessment update for the Kemp's ridley and loggerhead sea turtle populations in the Western North Atlantic. U.S. Dep. Commer. NOAA Tech. Memo. NMFS-SEFSC-444, 115 p.

Epperly, S.P. 2000. Sea turtle stranding and salvage network - a review. National Marine Fisheries Service, Southeast Fisheries Science Center, Miami, FL, 14 p.

National Marine Fisheries Service Southeast Fisheries Science Center. 2001. Stock assessments of loggerhead and leatherback sea turtles and an assessment of the impact of the pelagic longline fishery on the loggerhead and leatherback sea turtles of the Western North Atlantic. U.S. Dep. Commer. NOAA Tech. Memo. NMFS-SEFSC-455, 343 p.

Epperly, S.P. and J.B. McNeill. 2002. The use of AVHRR imagery and the management of sea turtle interactions in the mid Atlantic Bight. National Marine Fisheries Service, Southeast Fisheries Science Center, Miami, FL, 8 p.

Epperly, S., L. Avens, L. Garrison, T. Henwood, W. Hoggard, J. Mitchell, J. Nance, J. Poffenberger, C. Sasso., E. Scott-Denton, and Cynthia Yeung. 2002. Analysis of sea turtle bycatch in the commercial shrimp fisheries of the southeast U.S. waters and the Gulf of Mexico. U.S. Dep. Commer. NOAA Tech. Memo. NMFS-SEFSC-490, 88 p.

Watson, J.W., D.G. Foster, **S. Epperly**, and A. Shah. 2002. Experiments in the Western Atlantic northeast distant waters to evaluate sea turtle mitigation measures in the pelagic longline fishery. National Marine Fisheries Service, Southeast Fisheries Science Center, Pascagoula, MS, 135 p.

Watson, J.W., D.G. Foster, **S. Epperly**, and A. Shah. 2003. Experiments in the Western Atlantic northeast distant waters to evaluate sea turtle mitigation measures in the pelagic longline fishery. National Marine Fisheries Service, Southeast Fisheries Science Center, Pascagoula, MS, 87 p.

Watson, J.W., **S. Epperly**, L. Garrison, A. Shah, and C. Bergmann. 2004. Rationale for rule making option to require 16/0 circle hooks in tuna directed pelagic longline fisheries to mitigate sea turtle mortality. National Marine Fisheries Service, Southeast Fisheries Science Center, Pascagoula, MS, 7 p.

Watson, J.W., D.G. Foster, **S. Epperly**, and A. Shah. 2004. Experiments in the Western Atlantic northeast distant waters to evaluate sea turtle mitigation measures in the pelagic longline fishery. National Marine Fisheries Service, Southeast Fisheries Science Center, Pascagoula, MS, 123 p.

Shah, A. J. Watson, D. Foster and **S. Epperly**. 2004. Experiments in the Western Atlantic northeast distant waters to evaluate sea turtle mitigation measures in the pelagic longline fishery. National Marine Fisheries Service, Southeast Fisheries Science Center, Pascagoula, MS, 46 p.

Anon. 2004. Requirements and equipment needed for the careful release of sea turtles caught in hook and line fisheries. Appendix B1, 28 p. In NOAA Fisheries. Final Supplemental Environmental Impact Statement for the Reduction of Sea Turtle Bycatch and Bycatch Mortality in the Atlantic Pelagic Longline Fishery. U.S. Department of Commerce, National Marine Fisheries Service, Office of Sustainable Fisheries, Highly Migratory Species Management Division, Silver Spring, MD.

Epperly, S.P., L Stokes and S. Dick. 2004. Careful release protocols for sea turtle release with minimal injury. U.S. Dep. Commer. NOAA Tech. Memo. NMFS-SEFSC-524, 42 pp.

Watson, J. C. Bergmann, A. Shah, D. Foster, and **S. Epperly**. 2004. Evaluation of 18/0 circle hook in the Gulf of Mexico tuna fishery. National Marine Fisheries Service, Southeast Fisheries Science Center, Pascagoula, MS, 13 p.

Epperly, S.P. and C. Boggs. 2004. Post-hooking mortality in pelagic longline fisheries using "J" hooks and circle hooks. Application of new draft criteria to data from the Northeast Distant Experiments in the Atlantic. National Marine Fisheries Service, Southeast Fisheries Science Center, Protected Resources & Biodiversity Division, Miami, FL, 8 p.

Abstracts/Presentations

Epperly, S.P. and R.C. Creekmore. 1978. Age and growth of the channel catfish, *Ictalurus punctatus* (Rafinesque) from the Ohio River, West Virginia. Bull. WV Acad. Sci., Apr. 1978.

Epperly, S. P. 1982. A population investigation of Atlantic menhaden: a meristic, morphometric and biochemical approach. American Society of Ichthyologists and Herpetologists 62nd Annual Meeting, 13-19 Jun., DeKalb, IL.

Epperly, S.P. 1983. Comparison of underwater visual techniques for reef fish censusing, p. 15-16. In Barans, C.A. and S.A. Bortone, eds. The visual assessment of fish populations in the southeastern United States: 1982 workshop. South Carolina Sea Grant Publ. SC-SG-TR-01-83.

Ross, S.W. and **S.P. Epperly**. 1984. Estuarine nursery areas of commercially and recreationally important species in the Pamlico Sound, N.C. area. Atlantic Estuarine Research Society annual meeting, 8-10 Mar. 1984.

Epperly, S. P. and F. R. Rohde. 1985. Assessment of the North Carolina reef fishery. American Society of Ichthyologists and Herpetologists 65th Annual Meeting, 9-14 Jun., Knoxville, TN.

Epperly, S. P. 1985. Nekton of the Pamlico-Albemarle Peninsula: area utilization. Eighth Biennial International Estuarine Research Conference, 23 Jul.-2 Aug., Durham, NH.

Pietrafesa, L.J., G.S. Janowitz, E.B. Noble, J.M. Miller, S.W. Ross, and **S.P. Epperly** 1985. Abiotic factors influencing the spatial and temporal variability of juvenile fish in Pamlico Sound, N.C. Eighth Biennial International Estuarine Research Conference, 28 July- 2 August, 1985.

Epperly, S. P. and J. R. Dodrill. 1987. Catch rates of snowy grouper on a newly discovered deep reef in Onslow Bay, North Carolina. American Society of Ichthyologists and Herpetologists 67th Annual Meeting, 21-26 Jun., Albany, NY.

Epperly, S.P., F.C. Rohde, and L.P. Mercer. 1987. Exploitation of reef communities on the North Carolina outer continental shelf. American Fisheries Society Annual Meeting, 13-17 September 1987.

Epperly, S. P. and A. Veishlow. 1989. Description of sea turtle research in North Carolina. Proceedings of the 9th Annual Workshop on Sea Turtle Conservation and Biology, 7-11 Feb. 1990, Jekyll Island, GA. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFC-232:53-56.

Epperly, S. P. and A. Veishlow. 1989. Sea turtle distribution research in North Carolina. Atlantic Estuarine Research Society Spring 1989 Meeting, 6-8 Apr., Beaufort, NC.

Epperly, S. P., N. B. Thompson, J. A. Keinath, J. A. Musick, and D. T. Crouse. 1989. Sea turtles in North Carolina, p. 49-61. In Marine Expo '89, 6 Oct. 1989, Wilmington, N.C., N.C. Dep. Admin, Outer Continental Shelf Office, Raleigh, NC, 65 p.

Epperly, S. P. and A. Veishlow. 1989. Sea turtle distribution research in North Carolina. American Society of Ichthyologists and Herpetologists 69th Annual Meeting, 17-23 Jun. 1989, San Francisco, CA.

Braun, J., **S. P. Epperly**, and A. J. Chester. 1990. Aerial surveys for sea turtles in Core and Pamlico Sounds, North Carolina. Proceedings of the 10th Annual Workshop on Sea Turtle Conservation and Biology, 20-24 Feb. 1990, Hilton Head, SC. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFC-278:221-222.

Epperly, S. P., J. Braun, and A. Veishlow. 1990. Distribution and species composition of sea turtles in North Carolina. Proceedings of the 10th Annual Workshop on Sea Turtle Conservation and Biology, 20-24 Feb. 1990, Hilton Head, SC. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFC-278:95-96.

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